

IB. AMENDMENTS TO THE CLAIMS

Please enter the amendments to claims 1, 2, 4, 7-9, and 16, as shown below:

2/11/11
1. (Currently Amended) A peptide compound, comprising about ten to about 50 amino acids in length a sequence, wherein the peptide comprises an amino acid sequence comprising ~~comprises the~~ an integrin binding motif and , wherein the peptide is further characterized by a biological activity which enhances bone growth, and wherein the amino acid acids may be in the D- or L- conformation.

2. (Currently Amended) The peptide of claim 1, wherein the integrin binding motif is an RGD sequence.

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3. (Original) The peptide of claim 1, wherein the amino acid sequence is contiguous with the RGD sequence in naturally occurring protein matrix extracellular phosphoglycoprotein.

4. (Currently Amended) The peptide of claim 1, wherein the peptide has a length of ~~comprising~~ from about 15 to about 35 amino acids.

5. (Original) The peptide of claim 1, wherein the amino acids are in the L-conformation.

6. (Withdrawn)

7. (Currently Amended) The peptide of claim 1, comprising the sequence TDLQERGDNDISPFSGDGQPFKD (SEQ ID NO:47).

8. (Currently Amended) A peptide characterized by:

- (a) a length of from ten to fifty amino acids ~~acid~~;
- (b) an RGD sequence;
- (c) an amino acid sequence ~~amino acids~~ substantially the ~~same as those~~ amino acid sequence contiguous with an RGD sequence of naturally occurring matrix extracellular phosphoglycoprotein; and
- (d) biological active activity in promoting bone growth.

9. (Currently Amended) The peptide of claim 8, wherein the peptide is selected from the group consisting of

DFEGSGYTDLQERGD (SEQ ID NO:43)

YTDLQERGDNDISPF (SEQ ID NO:44)

ERGDNDISPFSGDGQ (SEQ ID NO:45)

TDLQERGDNDISPFSGDGQPFKD (SEQ ID NO:47).

10.-11. (Withdrawn)

12. (Original) A formulation comprising:

a carrier; and

a therapeutically effective amount of a peptide of claim 8.

13. (Original) The formulation of claim 12, wherein the carrier is a saline solution and the formulation is injectable.

14. (Original) The formulation of claim 12, wherein the carrier is a paste and the formulation is a toothpaste.

15. (Original) The formulation of claim 12, wherein the carrier is an aqueous flavored solution and the formulation is a mouthwash.

16. (Currently Amended) A pharmaceutical formulation, comprising:

a pharmaceutically acceptable carrier; and

a therapeutically effective amount of a peptide ~~comprising~~ having a length of from ten to fifty amino acids which amino acids correspond to an amino acid sequence of naturally occurring protein matrix extracellular phosphoglycoprotein and comprising the RGD sequence of phosphoglycoprotein, the peptide further characterized by enhancing bone growth in a mammal.